GARDEN IMPLEMENTS. Useful Machines for the Cultivation of the

The cultivation of a garden should be as perfect as possible. Usually it is supposed that hand work is better than machine work, and that the spade and hoe and rake are more effective than the plow and harrow and cultivator. But this is a great mistake. In every other industry machinery has been better and more effective than hand work. Machine-made watches keep better time; power looms make better -cloth; and all other machinery turn serve. - Boston Budget. out more and better work than the hands, however skillful they may be- first great "scientific" breeder, that come by use and habit. The plow he regarded the animals on his farm as turns over the soil as well as the spade wax in his hands, out of which in good and ten times more quickly; the har- time he could mold any form he row pulverizes and levels the soil, and desired to produce .- St. Louis Repubthe cultivator works and cleans it lican. equally better than the rake and hoe. In market gardens this fact is turned to account, and the horse does the mechanical labor, and the man uses one-half cups of flour, two level tea-

his brains and guides the horse. But the farm and domestic garden need a good deal of light manual work. although the heavy work may be done by horses. To accomplish this the gartate the garden tools. Some hand hoe- quick one. - Indianapolis Journal. ing, however, will be found necessary, and for this several of these useful implements will be required. A heavy, underdrained. Throwing the dirt to broad hoe, a narrow-bladed one, a the center turns off the surplus surface pronged one and a forked one are necessary to different uses.

Now that injurious insects are so numerous and so destructive, a new set of apparatus is needed to preserve the crops from them. A barrel mounted a cupful of tapioca, one quart milk, upon a hand truck, with a force pump | two eggs, separate the whites from the and spraying nozzle, are indispensable yelks, a pinch of salt, put into basin for the orchard; a Paris green distributor is needed for the potatoes; a keroseue oil emulsion spraying syringe is required for the onions and melons, and cupful of sugar .- Toledo Blade. an insect powder distributor must be used to save the cabbages from the green worm. All these new pests call appear best in narrow spaces between for new appliances for their destruction, and no garden is well furnished without or, if of high merit, resting on cabinets them. But there are small gar- or mantels. In all cases these should tions, such as those in towns and be as near as possible in line with the suburban localities where horses are eye. A simple subject vividly poranot kept and hard work is still in- traved may even be mounted over the dispensable. Then is found the advan- door .- Cincinnati Times. tage of the most effective hand machines. The hand plow is the first of these. It is a small plow mounted on a wheeled frame something like that of a light wheelbarrow. It turns a furrow

it always ready for use.

A garden wheelbarrow is another nests for cultivator teeth, spare bolts, rest himself occasionally when tired with work in the hot weather, or when surprised by a sudden light summer shower. It saved many steps back and tools, seeds, fertilizers and whatever articles might be needed in the day's bars, hoops, boxes, pots, panes of glass, boxes for young, tender plants, and supports for beans and peas; a steel trowel for transplanting, a pruning knife, a pair of thick, leather gloves, a pruning saw, and whatever experience may dictate should be provided liberally for the garden, and a place made for every thing and every thing kept in its place. And this calls for a convenient tool house. - N. Y. Times.

Malformation of the Eye.

"A strange case of malformation of the eye came under my notice the other day." said an optician recently. "A young man just from Germany came to me, asking to have a pair of glasses fitted. On examination I found that, in piain language, one of his eyes was of a microscopic character, while the other partook of the keenness and rays of a telescope. Far or near sightedness is by no means rare, and even both failings are often found in the same individual. But this is one of those rare combinations not often found. By -closing the right eye the man could distinguish people and see small objects at an almost phenomenal distance, while his left was so formed that it was only of use in reading, and he couldn't decipher small print very well without the aid of eye-glasses. In all my experience I never saw a man so badly afflicted."-Philadelphia Call.

-A gentleman called at a Carlisle, Pa., bank one day recently and asked seeded to clover, orchard and blue the teller if they paid full value for grass. The hog by nature is a grazing Picarune. trade dollars, stating that he had forty animal, and will not only sustain life, of them which he had kept for several but gain in weight, if it has an oppor- ing," wearily sighed Mrs. Gossip. years. He then produced the coin and | tunity to eat suitable forage crops. If | "What do you want with a house?" inhanded it to the teller, who found that a farmer is not so situated that he can terrogated Mrs. Snyder. "I thought every one was a Bland dollar .- Chicago inclose and seed land for pasturing his you owned your own house." "Of

-Bagley-"My dear Pompana, vou look dreadful. What is the matter?" "Merely a slight cough." "You're lucky. It might have been pneumonia." "Pneumonia! Do you think I can afford to have a rich man's disease? You'll be charging me with hay fever next."-Philadelphia Call.

whenever you refer to a Boston friend of corn is good, but very little will be strongly colored nose does not vary its New Yorker-'O, because he belongs dition if they are well supplied with And yet he has never been accused of around the Hub, of course."-Boston | the cheaper articles referred to .- Chi- being quick. Perhaps it means that he cago Times

FARM AND FIRESIDE.

-The greatest enemy the majority of farmers have to contend with is their own lack of skill, of forethought and intelligent labor .- Minnesola Farmer. -A contemporary suggests that a cow can be easily led by a halter which commands her nose, but with difficulty

by a rope around her horns. -Spinach: Boil in salt and water, drain, chop, and then return to the saucepan with some butter; set on the fire until the butter is melted, and then

-It has been said of Bakewell, the

-Cream Sponge Cake: Beat two eggs in a teacup, fill up the cup with sour cream, one cup of sugar, one and spoonfuls of baking powder, or onehalf teaspoonful of soda and one teaspoonful of cream of tartar. Flavor with lemon or vanilla. - Household.

-A carpet can be mended by cutting den is, or should be, laid out in a long a piece like the carpet a little larger parallelogram, so that everything can than the hole. Put paste around the be planted or sown in rows and culti- edge of the patch, then slip it under the vated as infield work. Then a small carpet and rub it well with a warm iron s eel plow, a light sloping tooth har- until dry. If the figure be matched it row, and a good horse hoe will consti- makes a very neat job, as well as a

-It is now generally admitted that no road can be perfect that is not well water, but that which goes down should be carried off underground instead of partially evaporating from the surface. Troy Times.

-Tapioca Pudding: Three-fourths of over boiling water until all jellies. After it cools put in flavoring, the whites of eggs well beaten and one tea-

-Small pictures should never be hung below large heavy ones; the latter moldings and other convenient nooks,

CHEAP FOOD FOR HOGS.

The Most Economical Way of Keeping Pigs During the Summer.

The average Western hog is half five inches deep and about as wide, and starved during the first half of its exis one of the most useful tools that can istence and stuffed during the remain- and 19,000 miles of old railway track be kept about a country house. We ing half. An entire litter of pigs are will be laid this year-thus affording have plowed a quarter of an acre with allowed to suckle their dam as long as the iron furnaces and steel rolling and she gives any milk. The supply grad- rail mills an abundance of work. The Seed drills are another useful hand ually diminishes as the creatures inmachine which save much backache crease in size and require more food. \$538,000,000 for the new and \$100,000,and leg weariness in sowing seeds. An It certainly happens that the stronger acre may be sown in a fore noon with drive or push away the weaker ones, any kind of seed. For sowing field and that they remain of diminished beets, mangels, turnips or peas they are size all their lives. After pigs are they are so useful that no garden should they are so useful that no garden should some of these cannot be specified in doing so. Till an influence on a magnetized needle valuable little machines are made to corn is ready to harvest hogs on most varying with its phases and its declinaserve as cultivators as well, but as they farms find it difficult to get enough to tion. The phenomenon is said to be are cheap we prefer to have a machine eat, and after the corn is put in crib more prominently noticeable when the for each separate purpose and so keep farmers find fault with their hogs be- moon is near the earth, and to be very cause they do not eat enough. The marked when she is passing from the Dickinson, Bussell, Lincoln, Ottawa gain of most hogs in summer is very full to her first or second quarter. The necessary implement. This should be small. At the time when milch cows disturbances are found to be at their made with a set of boxes for seeds and are giving twenty quarts of milk per maximum when the moon is in the plane day, colts and sheep are growing rapid- of the equator, and greater during the LANDS FROM \$4 TO \$10 PER ACRE wrench, reel and line and other arti- ly, and young cattle are showing a cles always wanted. A friend, who steady gain of six pounds per week, was an enthusiastic gardener, fitted up pigs on many farms are barely "holdone of these vehicles with a seat and a ing their own." It is the time when large umbrella over it and would there they should rapidly gain in weight like other farm animals.

much reliance on corn for feeding hogs that they often neglect to raise other forth, as it carried a complete outfit of kinds of food for them. They may know that an acre in common red or mammoth clover will produce more work. A complete supply of stakes, hog food than an acre in corn, and they are certainly aware of the fact that etc., for making trellises, nursing the animals will harvest the clover if they are given the opportunity. But the cost of fencing the hog pasture or the trouble of cutting the clover prevents the pigs from having the food they want. They are accordingly kept on a short allowance of food during the time it is the most abundant. If corn was not so abundant in the Western States, and was not so generally relied upon for making pork, it is likely that hogs would be better supplied with food during the growing season. In Enland and Germany, where no corn is produced, and in Canada, where but little is raised, bogs gain faster during warm weather than they do here, for the reason that they are better supplied with proper food. They grow clover, peas, tares, roots, potatoes, mill-stuffs and oil-cake. That keeping hogs on small rations during part of the year and then stuffing them with dry corn produces injurious effects on them, is generally admitted. Still, very little is done by most farmers to avoid the evils complained of. Our hogs receive very little attention during the summer, chiefly because their owners are two busily engaged in raising corn to feed to them after cold weather sets in. In the meantime the hogs are getting up a good appetite by a rigid course of fasting, and are preparing to lay on fat and contract the cholera.

The cheapest way to keep hogs during the summer is to provide pastures hogs, he can, at least, fence in a large | course I don't want a house," was the yard and keep it supplied with food confidential reply, "but I just like to go that costs less than corn and is better around and see how people live, you for the animals that eat it. Hogs will know."-Judge. de well on green, tender grass and -A French scientist who divines clover cut and thrown into their yards. character by a simple inspection of Pea vines, fodder corn, pumpkins and noses says that "the quick, passionate, squashes will also be readily eaten. sanguine person has a strongly colored Flax-seed, if ground or cooked, forms a nose of a uniform shade." This gives valuable food to be eaten in connection us a most accurate estimate of the char--Miss B .- "Why is it, Mr. A., that with green fodder. An occasional feed acter of the American tramp, whose you invariably use the word "fellow?" required to keep hogs in a growing con- uniform shade with season or climate.

SCIENCE AND INDUSTRY.

-Daytona, Fla., ships on an average of 250 boxes of oranges a day to North-

-- Over 180 natural gas and oil companies have been organized in the State of Ohio during the past sixteen months. -A new absorbent preparation is made from the cocoanut fiber. It is called cofferdam, and will hold like a sponge from twelve to tourteen times its own weight of water. - Springfield

-At the close of 1886 the American Association of Science, according to the report of the permanent secretary, had 1,886 members. Of these, 631, being specially engaged in scientific work, have been elected to the rank of fel-

-M. Lacombe, a Frenchman, has succeeded in taking long-distance photographs by fixing a telescope in front of the objective of the camera. The apparatus promises usefulness to tourists and other amateurs.

-A scientist, after a careful analysis of the impression made apon the retina by different degrees of light, concludes that both white and black are colors, and both should have a proper place upon the chromatic scale. - Frank Leslie's Newspaper.

-According to the United States census of 1870, of the total steam and water power employed 48.18 per cent. was water. In 1880 the percentage of water power had decreased to 35.39 per cent. From this it will be seen that water power is fast falling behind in the race. - Boston Dudget.

-A striking experiment in the combination of colors was performed a short time since by Prof. Vegel at a meeting of the Physical Society of Berlin. He wished to demonstrate the incorrectness of the popular notion that yellow and blue, when mixed, always make green. He took two phials. one containing acid yellow, and the other aniline blue. He mingled their contents together, and the result was a mixture not green in color, but of a fiery red hue. - N. Y. Ledger.

-In a recent paper on the coincidence of certain solar phenomena with the perturbations of terrestrial magnetism, M. E. Marchand shows, from a comparative study of the solar observations made at the Lyons Observatory, in 1885-86, with the curves of the Mascart magnetic recorder, that there exists a direct relation between the terrestrial magnetic disturbances and the displacement of certain solar elements accompanying the spots and the faculæ.

-There is now little doubt that 1887 will be the biggest building year that this country has ever known in railroads, factories and other houses. It is now estimated that 21,000 miles of new cost of these railroads is estimated at 000 for the old roads-or say \$650,000,-000 of capital needed for the railroads F. B. WILSON. alone. - Public Opinion.

-M. Ligner, an Austrian meteorolosouthern than it is during the northern declination .- Chicago Times.

PUNGENT PARAGRAPHS. ---A Frenchman has invented a telephone which costs but 621 cents. But In the Western States farmers put so just wait till the company fixes the rent

before you waste any congratulations. -Pittsburgh Chronicle-Telegraph. -The Seabrook (N. H.) selectmen have decided that a hen is not an ani- POLAND CHINA PIGS. mal. Wonder if they reckon her as a vegetable because of her crop.-Lowell

-The Reason Why .-The reason we forgive the great

For the achievements they pursue

Is that we think some kindred trait

We trace in every thing we do.

—Texas Siftings.

-Judge-"What have you to say against this charge of beating your own wife?" Prisoner-"Me own wife, yer honor? Begorrah! had it been some

-what - did - you -do -when-asyou- say- the - prisoner - threw-a -beer-glass-at-you?" Witness-

"I dodged."-N. Y. Sun. -The following conversation was overheard by a Tid-Bit representative: Wife-"John, I want seven dollars for dog-collar." Husband-"Seven dolars! You must be crazy. All I pay for my collars is twenty-five cents." Wife-"Yes, John, but you're no dog."

-"Mr. Walker," said the clerk, "the twelve cent prints at the remnant counter are going fast and are about sold "All right, I'll attend to it. Mr. Anawan, out a lot more of those seven cent prints into remnants and send them over to the bargain counter."-Burdette. -Almost any summer weather is too not for people to witness a theatrical performance when tickets must be bought; but the thermometer must climb to the high gallery to get above those who will crowd a theater to see a free

show, even on a July night.-N. O. -"I'm almost dead from house hunt-

is quick not to work. - Burdette.

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other man's wife you wouldn't give me less than a year."—Philadelphia Call.
—Counsel (badgering a witness)—
"Remember, sir that you are on oath."
Witness—"Yes, sir." Counsel—"Now

"Yes, sir." Counsel—"Now

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